

Applicant Serial No:  
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Thermodynamic Pulse Lift Oil & Gas Recovery System

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Art Unit \_\_\_\_\_  
Examiner \_\_\_\_\_

#### ABSTRACT

An apparatus and process for lifting production fluids using the heat of compression of production gas to heat injection liquids. An apparatus and process for uninterrupted production using conserved heat of compression during well maintenance. A lift gas apparatus and process controlled by wellhead pressure. A wellhead-controlled lifting system operating during well maintenance. An apparatus for multi-phase pumping for recovering oil and gas from a subterranean formation.